sapience
Consultants and Engineers
(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

GRADATION FOR GSB (Grading V)

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	1 & 2
Date	06.06.2022 to 07.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1761.4	1761.4	8.81	91.19	80 - 100	
26.5	3277.1	5038.5	25.19	74.81	55 - 90	
9.5	4669.7	9708.2	48.54	51.46	35 - 65	
4.75	3036.0	12744.2	63.72	36.28	25 - 50	
2.36	4722.5	17466.7	87.33	12.67	10 - 20	
0.850	1400.3	18867.0	94.34	5.66	2 - 10	
0.425	389.3	19256.3	96.28	3.72	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1778.8	1778.8	8.89	91.11	80 - 100	
26.5	3067.3	4846.1	24.23	75.77	55 - 90	
9.5	4985.7	9831.8	49.16	50.84	35 - 65	
4.75	2736.9	12568.7	62.84	37.16	25 - 50	
2.36	4936.4	17505.1	87.53	12.47	10 - 20	
0.850	1618.8	19123.9	95.62	4.38	2 - 10	
0.425	401.5	19525.4	97.63	2.37	0 - 5	

Note:

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For Sapience Consultants and Engineers,

Authorized Signature

SAPIENCE CONSULTANTS & ENGINEERS ★ Bangalore-59

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	3 & 4
Date	06.06.2022 to 07.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2588.8	2588.8	12.94	87.06	80 - 100	
26.5	2876.7	5465.5	27.33	72.67	55 - 90	
9.5	4747.3	10212.8	51.06	48.94	35 - 65	
4.75	1983.0	12195.8	60.98	39.02	25 - 50	
2.36	5289.7	17485.5	87.43	12.57	10 - 20	
0.850	1469.8	18955.3	94.78	5.22	2 - 10	
0.425	818.7	19774.0	98.87	1.13	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2319.5	2319.5	11.60	88.40	80 - 100	
26.5	2859.4	5178.9	25.89	74.11	55 - 90	
9.5	5113.8	10292.7	51.46	48.54	35 - 65	
4.75	1492.6	11785.3	58.93	41.07	25 - 50	
2.36	5687.7	17473.0	87.37	12.63	10 - 20	
0.850	1021.9	18494.9	92.47	7.53	2 - 10	
0.425	1032.2	19527.1	97.64	2.36	0 - 5	

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	5 & 6
Date	06.06.2022 to 07.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2432.3	2432.3	12.16	87.84	80 - 100	
26.5	3217.6	5649.9	28.25	71.75	55 - 90	
9.5	4980.3	10630.2	53.15	46.85	35 - 65	
4.75	1450.6	12080.8	60.40	39.6	25 - 50	
2.36	5439.7	17520.5	87.60	12.4	10 - 20	
0.850	1595.8	19116.3	95.58	4.42	2 - 10	
0.425	571.9	19688.2	98.44	1.56	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2080.8	2080.8	10.40	89.60	80 - 100	
26.5	3095.5	5176.3	25.88	74.12	55 - 90	
9.5	4906.1	10082.4	50.41	49.59	35 - 65	
4.75	1851.1	11933.5	59.67	40.33	25 - 50	
2.36	5553.0	17486.5	87.43	12.57	10 - 20	
0.850	1134.3	18620.8	93.10	6.90	2 - 10	
0.425	766.6	19387.4	96.94	3.06	0 - 5	

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	7 & 8
Date	07.06.2022 to 08.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2547.6	2547.6	12.74	87.26	80 - 100	
26.5	2965.4	5513.0	27.57	72.43	55 - 90	
9.5	5166.4	10679.4	53.40	46.6	35 - 65	
4.75	1186.4	11865.8	59.33	40.67	25 - 50	
2.36	5645.0	17510.8	87.55	12.45	10 - 20	
0.850	1323.5	18834.3	94.17	5.83	2 - 10	
0.425	1129.0	19963.3	99.82	0.18	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2112.7	2112.7	10.56	89.44	80 - 100	
26.5	3625.8	5738.5	28.69	71.31	55 - 90	
9.5	4564.5	10303.0	51.52	48.48	35 - 65	
4.75	1911.7	12214.7	61.07	38.93	25 - 50	
2.36	5299.5	17514.2	87.57	12.43	10 - 20	
0.850	1252.3	18766.5	93.83	6.17	2 - 10	
0.425	1222.3	19988.8	99.94	0.06	0 - 5	

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Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	09 & 10
Date	07.06.2022 to 08.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2408.1	2408.1	12.04	87.96	80 - 100	
26.5	2427.4	4835.5	24.18	75.82	55 - 90	
9.5	5693.0	10528.5	52.64	47.36	35 - 65	
4.75	2100.3	12628.8	63.14	36.86	25 - 50	
2.36	4863.4	17492.2	87.46	12.54	10 - 20	
0.850	1562.4	19054.6	95.27	4.73	2 - 10	
0.425	241.2	19295.8	96.48	3.52	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2553.6	2553.6	12.77	87.23	80 - 100	
26.5	2809.4	5363.0	26.82	73.18	55 - 90	
9.5	4169.0	9532.0	47.66	52.34	35 - 65	
4.75	1942.4	11474.4	57.37	42.63	25 - 50	
2.36	6038.6	17513.0	87.57	12.43	10 - 20	
0.850	1103.5	18616.5	93.08	6.92	2 - 10	
0.425	775.2	19391.7	96.96	3.04	0 - 5	

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Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	11 & 12
Date	07.06.2022 to 08.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1680.2	1680.2	8.40	91.6	80 - 100	
26.5	4071.8	5752.0	28.76	71.24	55 - 90	
9.5	4253.0	10005.0	50.03	49.97	35 - 65	
4.75	1978.8	11983.8	59.92	40.08	25 - 50	
2.36	5436.0	17419.8	87.10	12.9	10 - 20	
0.850	1489.4	18909.2	94.55	5.45	2 - 10	
0.425	415.7	19324.9	96.62	3.38	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2506.1	2506.1	12.53	87.47	80 - 100	
26.5	2091.8	4597.9	22.99	77.01	55 - 90	
9.5	5556.6	10154.5	50.77	49.23	35 - 65	
4.75	1875.9	12030.4	60.15	39.85	25 - 50	
2.36	5447.2	17477.6	87.39	12.61	10 - 20	
0.850	1616.8	19094.4	95.47	4.53	2 - 10	
0.425	860.6	19955.0	99.78	0.22	0 - 5	

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Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No	13 & 14
Date	07.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	
53	2063.9	2063.9	10.32	89.68	80 - 100	
26.5	2795.2	4859.1	24.30	75.7	55 - 90	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
9.5	4633.9	9493.0	47.47	52.53	35 - 65	
4.75	2732.8	12225.8	61.13	38.87	25 - 50	
2.36	5292.5	17518.3	87.59	12.41	10 - 20	
0.850	1563.2	19081.5	95.41	4.59	2 - 10	
0.425	787.4	19868.9	99.34	0.66	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	
53	2432.8	2432.8	12.16	87.84	80 - 100	
26.5	2947.8	5380.6	26.90	73.10	55 - 90	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
9.5	4307.8	9688.4	48.44	51.56	35 - 65	
4.75	2940.0	12628.4	63.14	36.86	25 - 50	
2.36	4915.8	17544.2	87.72	12.28	10 - 20	
0.850	898.7	18442.9	92.21	7.79	2 - 10	
0.425	1058.5	19501.4	97.51	2.49	0 - 5	

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For Sapience Consultants and Engineers,

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ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಲೋಕೋಪಯೋಗಿ ಉಪವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ, ಬೆಂಗಳೂರು

sapience
Consultants and Engineers
(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

GRADATION FOR GSB (Grading V)

Project Name	Restoration and Improvements of roads and drains In A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	17 & 18
Date	08.06.2022 to 09.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2065.3	2065.3	10.33	89.67	80 - 100	
26.5	2930.0	4995.3	24.98	75.02	55 - 90	
9.5	5066.4	10061.7	50.31	49.69	35 - 65	
4.75	2062.6	12124.3	60.62	39.38	25 - 50	
2.36	5475.2	17599.5	88.00	12	10 - 20	
0.850	1148.3	18747.8	93.74	6.26	2 - 10	
0.425	889.4	19637.2	98.19	1.81	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2324.9	2324.9	11.62	88.38	80 - 100	
26.5	2842.9	5167.8	25.84	74.16	55 - 90	
9.5	5330.0	10497.8	52.49	47.51	35 - 65	
4.75	2209.2	12707.0	63.54	36.46	25 - 50	
2.36	4773.4	17480.4	87.40	12.60	10 - 20	
0.850	943.5	18423.9	92.12	7.88	2 - 10	
0.425	1007.2	19431.1	97.16	2.84	0 - 5	

Note:

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→ The results indicated above are based on the tests carried out on the Samples are collected on the work spot & tested in the laboratory.

→ Any Query regarding the report must be reported within 15 days from the date of testing.

For Sapience Consultants and Engineers,

SAPIENCE CONSULTANTS & ENGINEERS Bangalore-59

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	21 & 22
Date	08.06.2022 to 09.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	
53	2509.1	2509.1	12.55	87.45	80 - 100	
26.5	2322.6	4831.7	24.16	75.84	55 - 90	
9.5	4870.9	9702.6	48.51	51.49	35 - 65	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
4.75	2111.5	11814.1	59.07	40.93	25 - 50	
2.36	5773.1	17587.2	87.94	12.06	10 - 20	
0.850	1252.2	18839.4	94.20	5.8	2 - 10	
0.425	635.0	19474.4	97.37	2.63	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	
53	2099.4	2099.4	10.50	89.50	80 - 100	
26.5	2831.4	4930.8	24.65	75.35	55 - 90	
9.5	5859.6	10790.4	53.95	46.05	35 - 65	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
4.75	936.0	11726.4	58.63	41.37	25 - 50	
2.36	5706.6	17433.0	87.17	12.83	10 - 20	
0.850	1300.1	18733.1	93.67	6.33	2 - 10	
0.425	757.2	19490.3	97.45	2.55	0 - 5	

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GRADATION FOR GSB (Grading V)

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	23 & 24
Date	09.06.2022 to 10.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1773.9	1773.9	8.87	91.13	80 - 100	
26.5	3401.3	5175.2	25.88	74.12	55 - 90	
9.5	4872.1	10047.3	50.24	49.76	35 - 65	
4.75	1919.2	11966.5	59.83	40.17	25 - 50	
2.36	5560.1	17526.6	87.63	12.37	10 - 20	
0.850	1625.8	19152.4	95.76	4.24	2 - 10	
0.425	350.1	19502.5	97.51	2.49	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1634.5	1634.5	8.17	91.83	80 - 100	
26.5	3284.5	4919.0	24.60	75.40	55 - 90	
9.5	5732.7	10651.7	53.26	46.74	35 - 65	
4.75	1476.6	12128.3	60.64	39.36	25 - 50	
2.36	5371.9	17500.2	87.50	12.50	10 - 20	
0.850	1637.2	19137.4	95.69	4.31	2 - 10	
0.425	557.1	19694.5	98.47	1.53	0 - 5	

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